

RESERVOIR SEDIMENT

DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Caney Creek MPS #2

NAME OF RESERVOIR

16 -34

DATA SHEET NO.

Caneyville Quadrangle

DAM	1. OWNER <b>Caneyville</b>		2. STREAM <b>Bennett Fork</b>		3. STATE <b>Kentucky</b>			
	4. SEC. <b>U.S.C. &amp; G.S. Grid Coord.</b>		5. NEAREST P.O. <b>Caneyville</b>		6. COUNTY <b>Grayson</b>			
	7. LAT. <b>1,793,000-404,000</b>		8. TOP OF DAM ELEVATION <b>502.4</b>		9. SPILLWAY CREST ELEV. <b>493.5</b>			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-FEET	14. GROSS STORAGE, ACRE-FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL	493.5	130.8	909.4	1355.4			
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY	484.6	75	260	446	16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION					Nov. 18, 1965		
	g. INACTIVE		46	186	186			
WATERSHED	17. LENGTH OF RESERVOIR <b>1.0</b> MILES		AV. WIDTH OF RESERVOIR <b>0.2</b> MILES					
	18. TOTAL DRAINAGE AREA <b>5.77</b> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <b>42.22 (5 yr.)</b> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <b>5.65</b> SQ. MI.		23. MEAN ANNUAL RUNOFF <b>13.31 (3 yr.)</b> INCHES					
	20. LENGTH <b>3.59</b> MILES	AV. WIDTH <b>1.61</b> MILES	24. MEAN ANNUAL RUNOFF <b>4095</b> AC.-F.T.					
	21. MAX. ELEV. <b>810</b>		MIN. ELEV. <b>465.9</b>	25. ANNUAL TEMP: MEAN <b>59.9</b> RANGE <b>77.8</b> -26°F. <b>109</b>				
SURVEY DATA	26. DATE OF SURVEY	27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA, ACRES	32. CAPACITY, ACRE-FEET	33. C/I. RATIO, AC.-FT. PER AC.-FT.
	Nov. 18, 1965	--	--		--			
	May 14, 1970	4.5	4.5	Range (D)	10 Ranges	70.88 130.80	420.20 <sup>1/</sup> >1355.40 <sup>2/</sup>	0.33
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW, ACRE-FEET		36. WATER INFL. TO DATE, AC.-FT.			
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE	
	May 14, 1970	47						
	26. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET			
		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
	May 14, 1970	25.79 <sup>1/</sup>	5.73 <sup>1/</sup>	1.01 <sup>1/</sup>	25.79	5.73	1.01	
	26. DATE OF SURVEY	39. AV. DRY WGT., LBS. PER CU. FT.	40. SED. DEP., TONS PERSQ. MI.-YR.		41. STORAGE LOSS, PCT.		42. SED. INFLOW, PPM	
		a. PERIOD	b. TOTAL TO DATE	a. AV. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
May 14, 1970	77.75	1710	1710 <sup>1/</sup>	1.28 <sup>1/</sup>	5.78 <sup>1/</sup>			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION													
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														
5/14/70	Seg 1 2.68	Seg 2 14.92	Seg 3 22.33	Seg 4 2.18	Seg 5 0.20	Seg 6 15.04	Seg 7 17.13	Seg 8 13.26	Seg 9 11.09	Seg 10 1.17					

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
Original	Capacity	1965	1970	Capacity				
484.6	753/	488.14	484.6	70.88	462.35			

47. REMARKS AND REFERENCES

1/ Water Supply - below elev. 484.6.

2/ Total Reservoir - below crest elev. 493.5.

3/ Work Plan Data.

Western Coal Fields Physiographic Region - Land Resource Area - 210.

Geology: The Caseyville formation of the Pottsville Series, Lower Pennsylvanian, comprises most of the watershed.

Land use in the watershed: Cropland 8%; grassland, 35%; woodland 54%; misc. 3%.